

What is claimed is:

1. A Semiconductor integrated circuit comprising:

a nonvolatile memory to store address information  
indicating a relationship between an address of a first

5 memory space and an address of a second memory space;

a plurality of functional modules each to has an  
address in the second memory space; and

a bus control circuit,

wherein the bus control circuit receives a first  
10 address in the first memory space and translates the first  
address into a second address in the second memory space  
using the address information and access is made to a  
functional module having the second address among the  
plurality of functional modules.

15

2. The semiconductor integrated circuit according to claim  
1, further comprising:

a bus; and

a switching circuit to control a connection between  
20 the plurality of functional modules and the bus,

wherein:

the nonvolatile memory stores connect/disconnect  
information for the plurality of functional modules; and

the switching circuit selects a functional module to be connected with the bus according to the connect/disconnect information.

- 5    3. The semiconductor integrated circuit according to claim 1, wherein the address information is stored in the nonvolatile memory when a probing test is conducted on the semiconductor integrated circuit.
- 10   4. The semiconductor integrated circuit according to claim 2, wherein the connect/disconnect information is stored in the nonvolatile memory when a probing test is conducted on the semiconductor integrated circuit.